
HICKMAN COUNTY

(Hickman County Water Service Area Map)

- Estimated 1999 population of 4,900--43% on public water
- Estimated 2020 population of 3,700--60% on public water
- 26 miles of water lines, with plans for 12 additional miles
- Estimated funding needs for public water 2000-2005--\$0
- Estimated funding needs for public water 2006-2020--\$310,000

Hickman County had an estimated population of 4,858 (2,114 households) in 1999 with a projected population of 3,739 (1,704 households) in 2020. About 43 percent of the county's residents are on public water, the majority rely on private domestic wells. About 70 households will be added to public water service by line extensions during 2000-2020.

Estimated Costs - Proposed Projects, 2006-2020

COUNTY/System		New Customers		Rehab	Source	Treatment	Tanks/ Pumps	Total
	Miles	Number	Cost in \$1000	in \$1000	in \$1000	in \$1000	in \$1000	in \$1000
HICKMAN								
U.S. UTILITIES	11.9	70	310					310
TOTAL	11.9	70	310					310

PUBLIC WATER SYSTEMS

Hickman County is served by two community water systems--1 private, US Utilities Inc., 1 municipal, Columbus Water Works--and two non-community water systems.

US UTILITIES INCORPORATED

PWSID: 0530077
System Type: COMMUNITY
Owner Type: INVESTOR-OWNED UTILITY
Surface Source:
Purchase Source:
Well Source: Yes
Sells Water to:
Treatment Plant Capacity (MGD): 1.40
Percent Daily Average Production: 27.00
Total Tank Storage Capacity (gallons): 388,500.00
Total Service Connections: 710.00
Number of Employees: 4.00
Treatment Operator Class: 2D
Distribution Operator Class: 3B
Customer Rate for 1,000 Gallons: Not available
O/M costs 1997: Not available

WATER SERVICE AREAS

HICKMAN COUNTY

Kentucky

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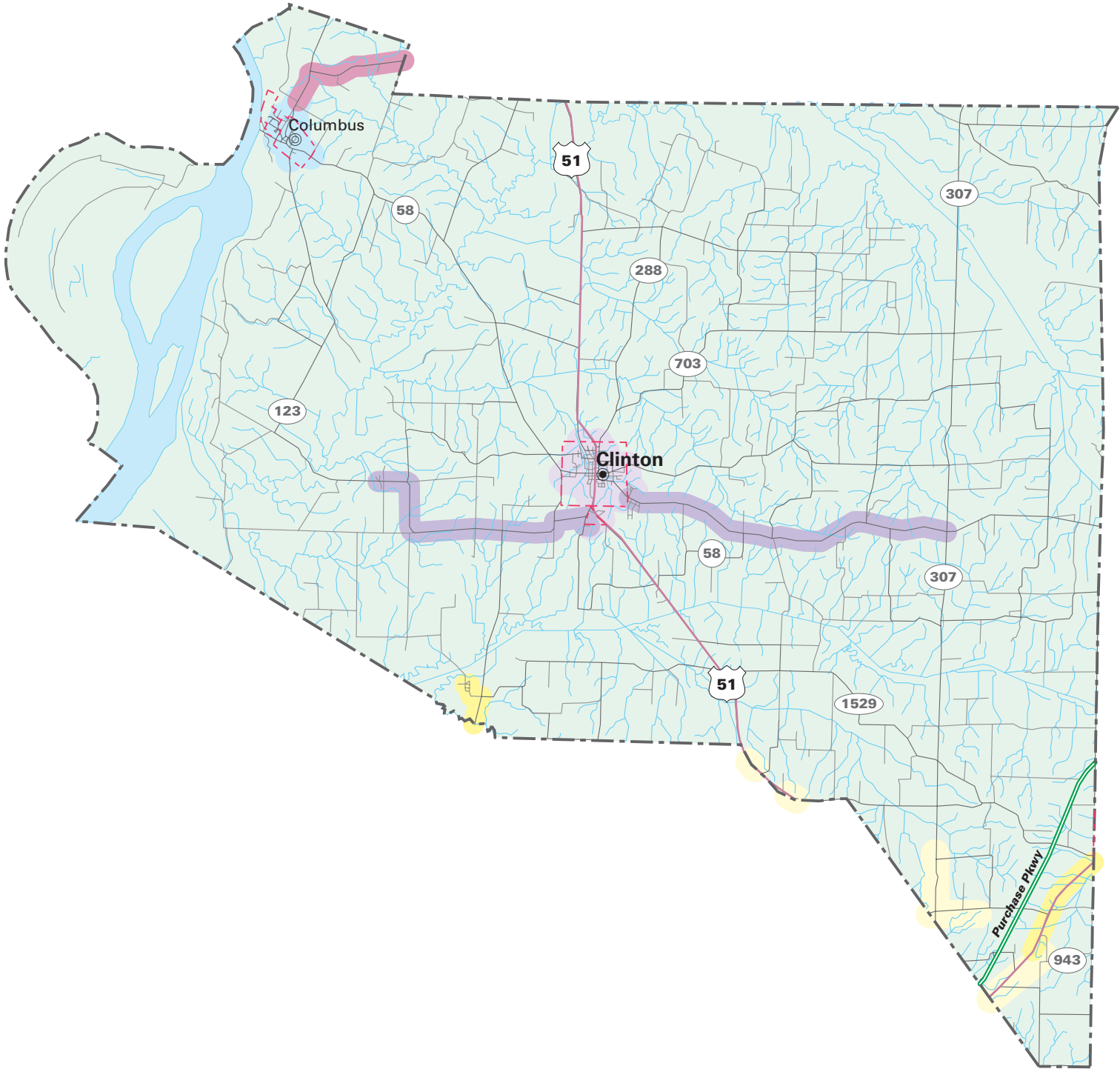
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WATER SERVICE STATUS BY OWNER

EXISTING SERVICE AREA	PROPOSED SERVICE AREA	OWNER
		US UTILITIES INCORPORATED
		FULTON MUNICIPAL WATER SYSTEM
		COLUMBUS WATER WORKS
		ARLINGTON WATER DEPARTMENT



O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

US Utilities is a corporation that provides water for the city of Clinton. US Utilities has 710 customers and employs four fulltime employees. US Utilities has two wells from each of which it withdraws 145,000 gallons per day. The treatment plant is operating at 20% of capacity (1.4 million gallons per day). There are two storage tanks for a combined capacity of 388,500 gallons.

COLUMBUS WATER WORKS

PWSID:	0530083
System Type:	COMMUNITY
Owner Type:	MUNICIPAL
Surface Source:	
Purchase Source:	
Well Source:	
Sells Water to:	
Treatment Plant Capacity (MGD):	1.44
Percent Daily Average Production:	21.00
Total Tank Storage Capacity (gallons):	120,000.00
Total Service Connections:	120.00
Number of Employees:	1.00
Treatment Operator Class:	
Distribution Operator Class:	2BD
Customer Rate for 1,000 Gallons:	Not available
O/M costs 1997:	Not available
O/M costs per Service Connection:	Not available
Net Revenue 1997:	Not available
Total Water Produced 1997 (gallons):	Not available
Water Sold 1997 (gallons):	Not available
Unaccounted-for Water 1997 (%):	Not available

The city currently has 120 customers and employs one fulltime person. The city has two wells from each of which it withdraws 23,000 gallons a day from. The municipal system has treatment capacity of 144,000 gallons per day The city has one tank with a capacity of 120,000 gallons.

OTHER SYSTEMS

HARPER'S COUNTRY HAMS

Harper's Country Hams is located in Hickman County. The system serves a population of 65 and has 2 service connections. The private, non-transient, non-community system has treatment capacity of 20,000 gallons per day. The water source is wells.

NICKYS BAR B QUE

Nickys Bar B Que is located in Hickman County. The system serves a population of 50 and has 1 service connection. The private, transient, non-community system has treatment capacity of 8,000 gallons per day. The water source is wells

PRIVATE DOMESTIC SYSTEMS

About 2,800 people in Hickman County rely on private domestic wells for their water supply.

Abundant quantities of ground water is available for domestic, irrigation, and industrial uses in Hickman County from depths of a few feet down to 750 feet. In general, the chemical quality of the water is good, but water from some aquifers contains objectionable amounts of iron. Water from alluvium is generally hard to very hard. Water from the sand and/or gravel, non-alluvium aquifers are considered soft and slightly acidic with low dissolved solids.

Generally, depths to ground water is under 100 feet except in the uplands and in the western part of the county where water is found in the 100 to 250 foot range. Yields in some of the deeper wells (250-750 feet) are greater than 1,000 gallons per minute which is sufficient for a community or industrial supply.

Ground water sometimes contains iron naturally in objectionable amounts from the deeper zones. In some formations with slightly acidic ground-water, a chemical reaction between the acidic ground-water and steel well casing and pump equipment will produce a high iron content in the water which is not naturally occurring.
